

Abstract of the Disclosure

In this invention, a main storage is divided into an area that should be initialized and an area that should not be initialized at the time when the system is restarted. Part of the main storage area that should not be initialized is allocated to a table for managing a use situation of the main storage and a use situation of an address space. After the restart, for a request for main storage allocation to the virtual space whose contents should be taken over, part of the main storage area that should not be initialized is allocated to a virtual space and part of the main storage area that should not be initialized is also allocated to an address translation table corresponding to the virtual space. For a request for main storage allocation to the virtual space other than the above-mentioned request, part of the main storage area that should be initialized is allocated thereto. At the time of the restart, only areas that should be initialized are subjected to the initialization. Also for a management table for a use state of the main storage, only parts thereof that correspond to the areas that should be initialized are subjected to the initialization.